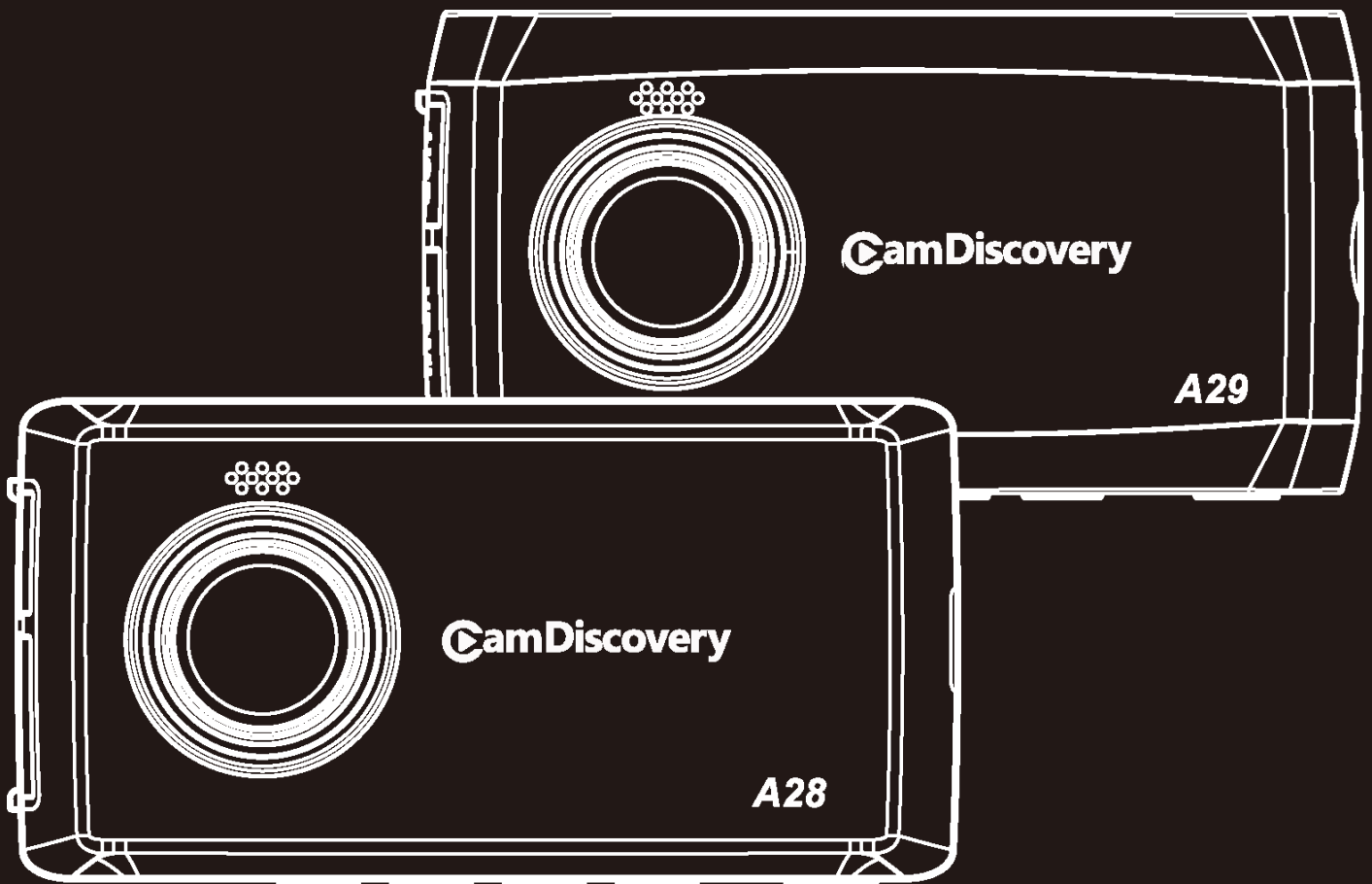




A28/A29 User Manual

Please read the user manual clearly for avoiding any wrong operation, current manual is not the newest and not complete, please contact us if any query.

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Main Features

- 960 x 240 , 2.7 inch TFT LCD Screen
- 3MP FULL HD CMOS Sensor
- 170° Super wide angle
- Full HD 1080P H.264 Compression to MOV video format
- Built in G-sensor for accident and enforce to save the video
- Zero second leakage
- Active video record automatically while start the vehicle
- Support loop record and video clip time length settable
- Support take pictures
- Settable video resolution :

16 : 9 FULL HD 1920 x 1080p 30FPS

16 : 9 HD 1280 x 720p 60FPS

16 : 9 HD 1280 x 720p 30FPS

4 : 3 WVGA 848 x 480 30FPS

- Settable picture resolution :

4000 x 3000 12MP

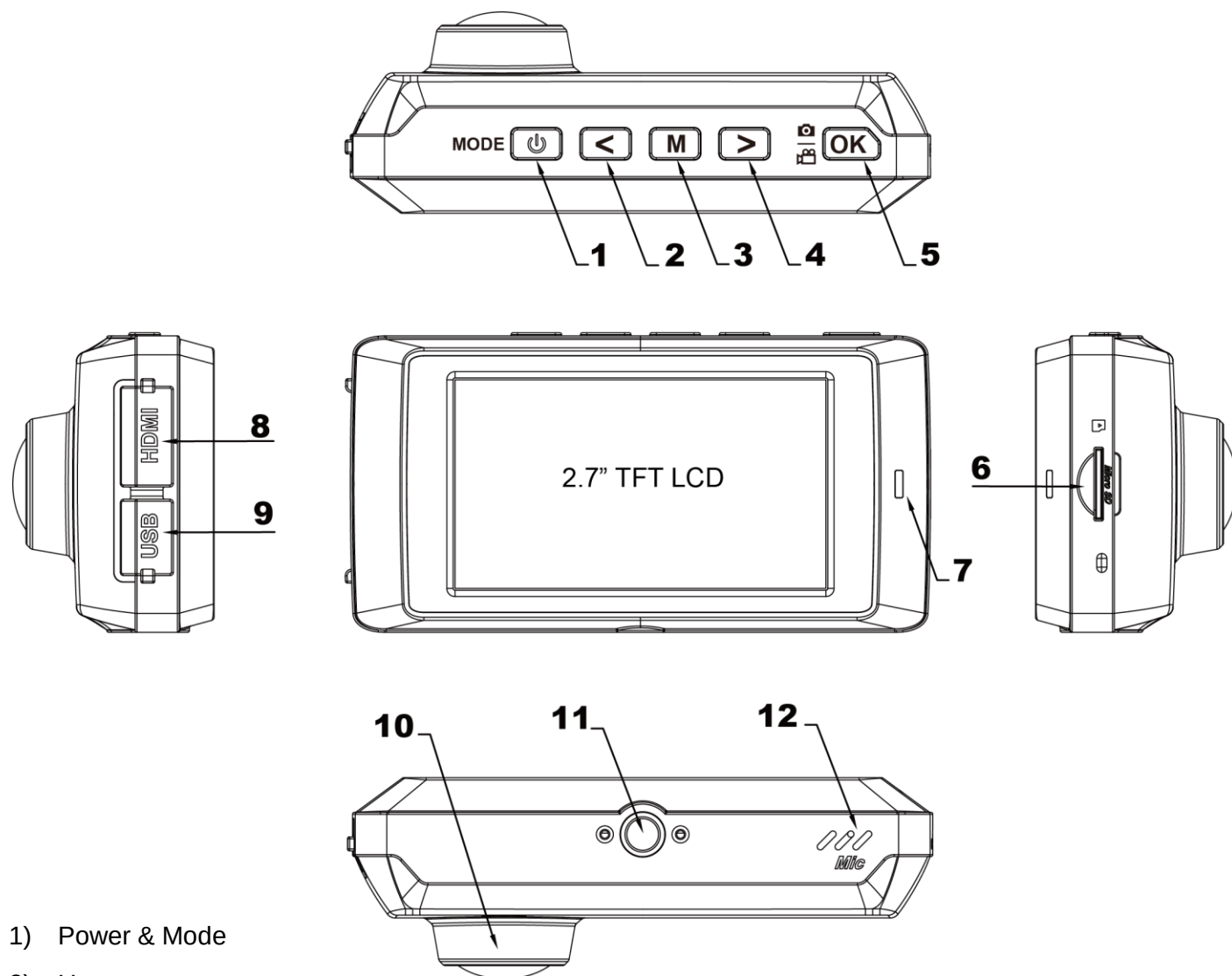
3200 x 2400 8MP

2592 x 1944 5MP

- Video & Audio Playback
- Support 1GB~32GB High speed SDHC storage card
- USB2.0 for data transfer and power charge
- USB & RCA optional video output mode

Install & Use

Camera Body

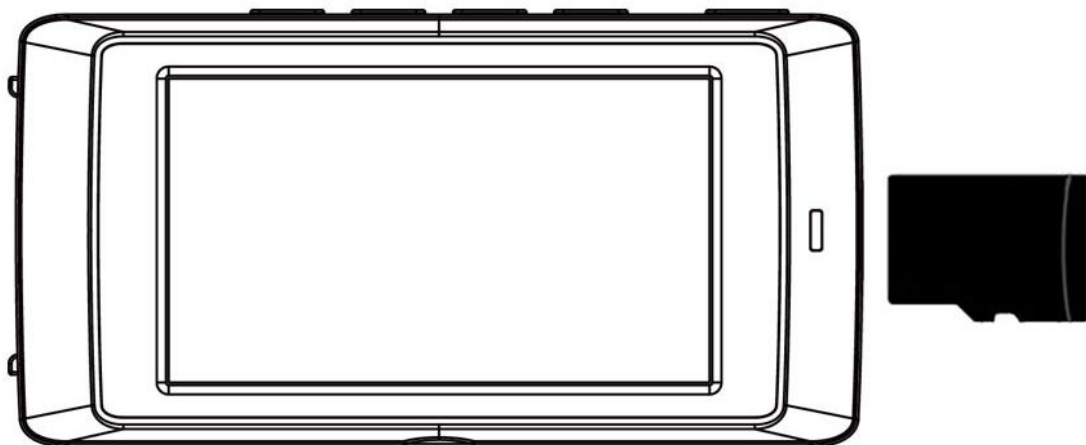


- 1) Power & Mode
- 2) Up
- 3) Menu
- 4) Down
- 5) Capture/Record/Confirm
- 6) TF Card slot
- 7) REC Indicator

- 8) HDMI Port
- 9) USB Port
- 10) Lens
- 11) Mount jack
- 12) MIC

Install Memory Card

- 1) Please install the TF card correctly according to the picture below:

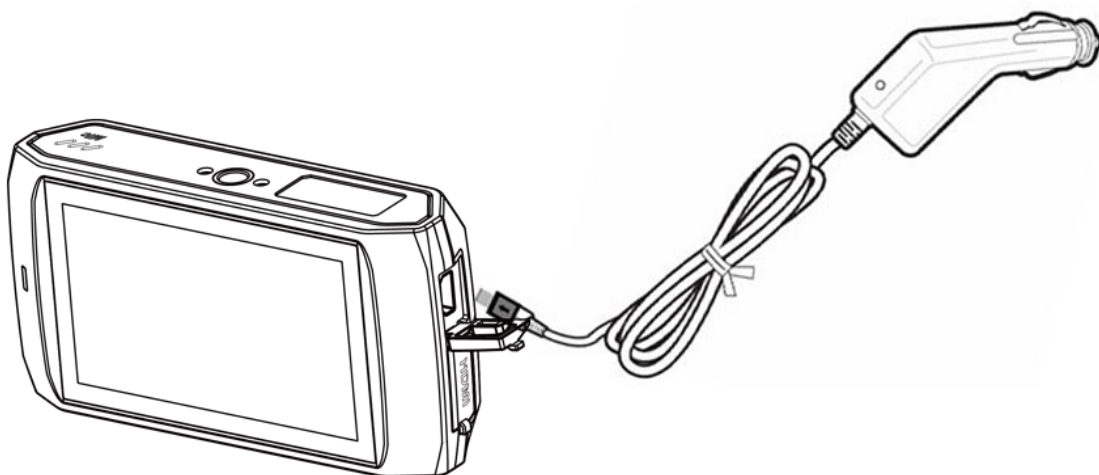


- 2) This product does not built in Memory, support 1GB~32GB SDHC TF card expand.
- 3) After insert the TF card, the available usage volume could be checked on the screen.

Caution:

Please use the original TF card to ensure the product works normally, and please format the memory card in camera system before use.

Connect to Cigar Charger



Connect the USB head to camera, and insert the cigar charger head to vehicle cigar lighter slot, both the indicator on camera and charger head will turn on in normal.

Video Record & Picture Capture

- 1) The camera will start to video record automatically if connected the power, the Red icon on the left corner of screen will flash continuously, and means recording normally, like below:



- 2) Press **POWER** button switch to “Picture Capture” mode, then press **REC** button once to take picture, available to press < & > to zoom in & out.



Note:

The camera will start video recording automatically, the video time length will decided by the setting in system. ,

The camera will delay 1 minutes to stop recording and power off after power disconnect.

Video & Picture Playback

Press **POWER** button switch to the folder interface, use < > button to browse the video and pictures, like below:

Video File :



Press **REC** button to play or pause video playing, use < > button could fast forward or fast backward.

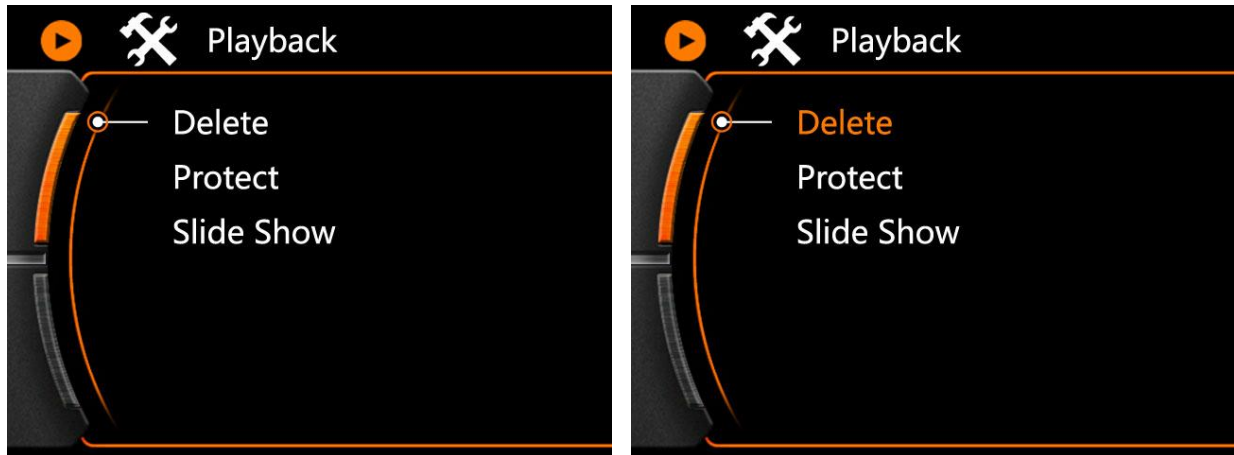
Picture File :



Use < > button to go previous or next picture.

Delete Files

Press MENU button under Playback or Browse mode, the system will appear the delete option menu like below:



Use < > button to do operation:

Choose Delete : Press **REC** button to confirm delete and the delete option menu will appear, or press **MENU** to quit.

Delete Current : Press **REC** to delete current file, or press **MENU** to cancel operation.

Delete All: Press REC to delete all video & picture files, or press MENU to cancel operation.

Choose Protect : Press **REC** button to confirm and protect option menu will appear, or press MENU to quit.

Lock Current : Current file will not effected by loop record and will not be deleted.

Unlock Current: Current file would be deleted if the memory card is full under loop record mode.

Lock All: All video and picture files will not effected by loop record and will not be deleted.

Unlock All : All video and picture files would be deleted if the memory card is full under loop record mode.

Slide Show : Press **REC** button to confirm and enter the “2 seconds” slide show play mode. Press REC button again will quit.

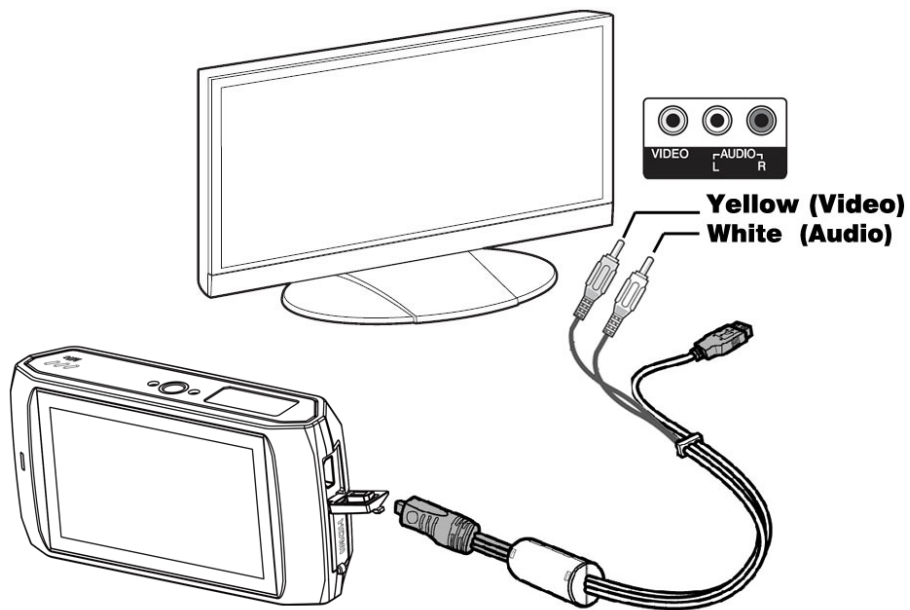
Caution :

The files will not be recovered after deleted, recommend to backup before do this operation.

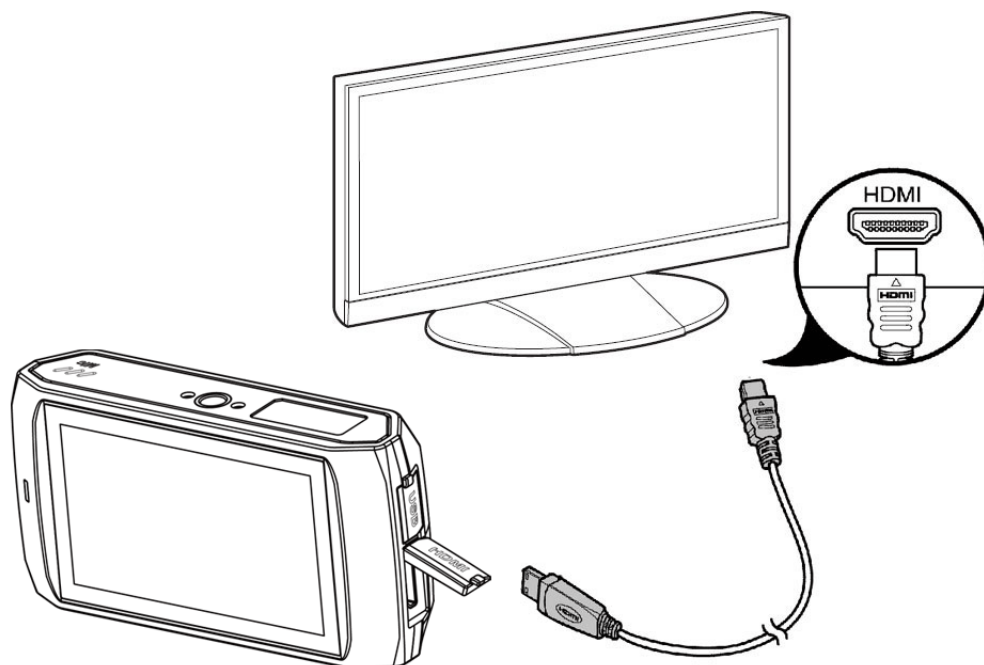
Connect to Television

1) Connect with TV by offered USB&RCA cable

Please insert the RCA head to TV (Yellow-Video; White-Audio), USB head to camera unit, like below:

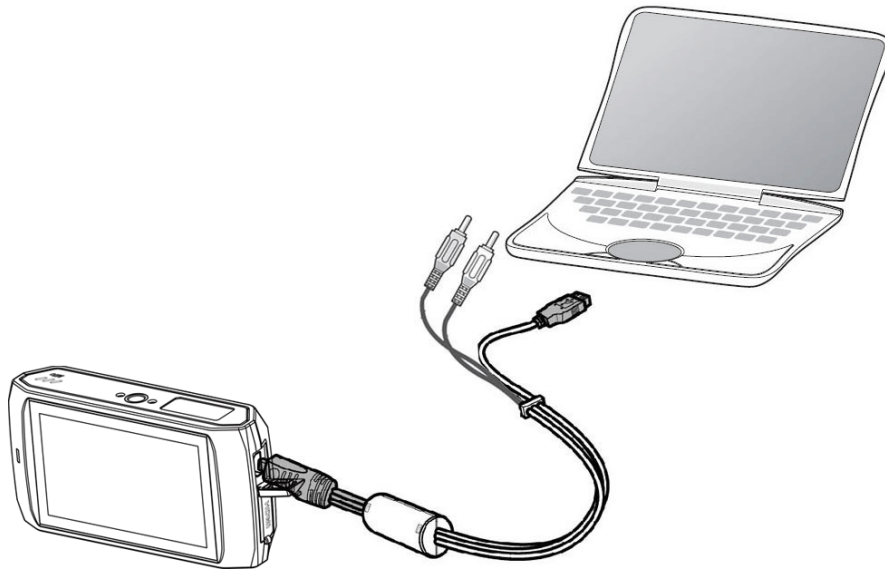


2) Connect with TV by HDMI

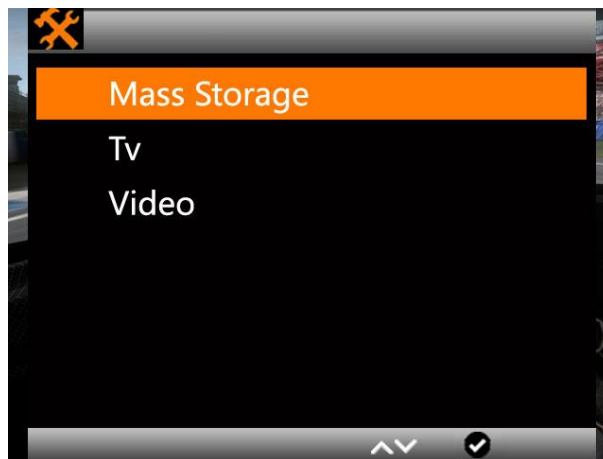


Connect to PC

Connect the camera unit with PC by USB cable, available to browse the video & picture files in the PC and charge the power.



After connect the camera unit with the computer, the screen will display an option menu lie below, use < > to change option and press **REC** to confirm suitable choice according to need.



Press REC to confirm operation.

Mass Storage : Connect with computer to browse , copy or playback in the computer.

TV : Connect to TV , could play the video clips and pictures in the camera memory card.

Video : Connect with computer to charge the power and it is also available to operate the camera and do recording.

System Menu & Icon

System Icons on screen

-  REC Mode
-  Capture Mode
-  Scan Mode
-  REC setting
-  Capture setting
-  System setting
-  HDR
-  MIC on
-  Loop REC / 5 Minutes per video clip
-  Exposure Value
-  Full HD 1080p 30FPS
-  Anti-Shaking ON
-  White Balance
-  ISO
-  Photo pixel
-  Photo quality
-  TF Card condition
-  Battery
-  Charging
-  No SD card installed (Use internal memory)
-  Protected file while G-sensor active



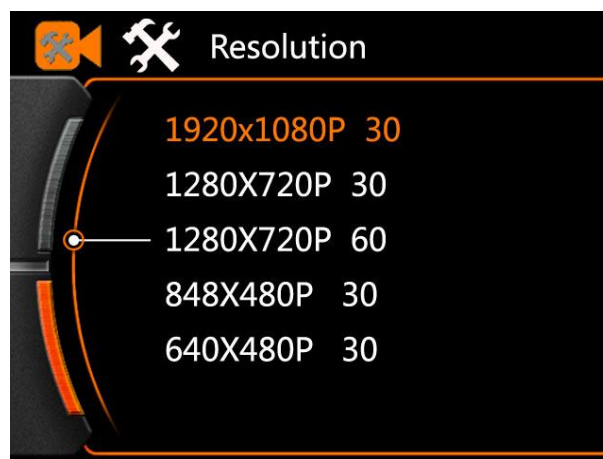
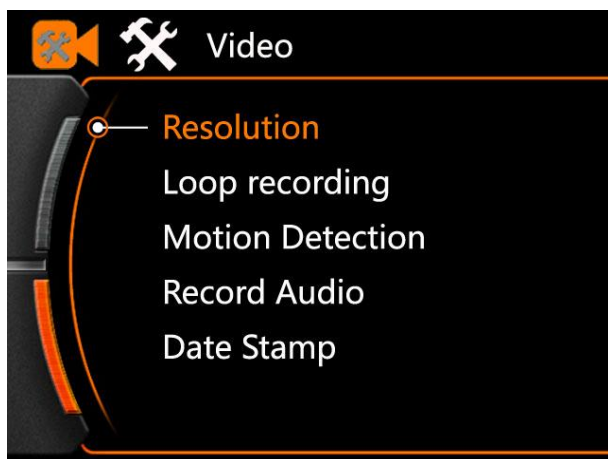
Note : Would have little change because of firmware update

REC Setting

REC Mode

Press **MENU** button to enter the main menu, press < > to do setting and press **REC** button to confirm and enter.

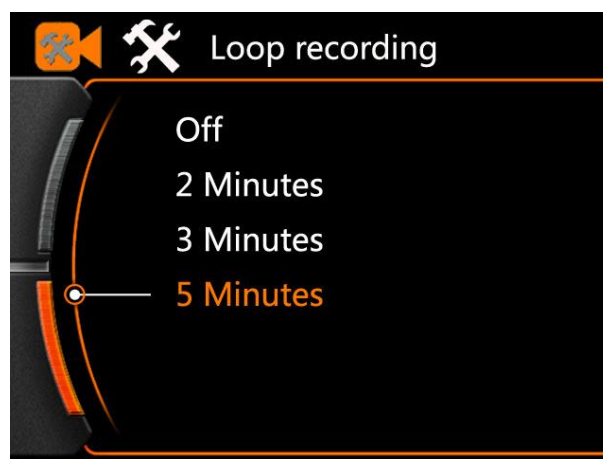
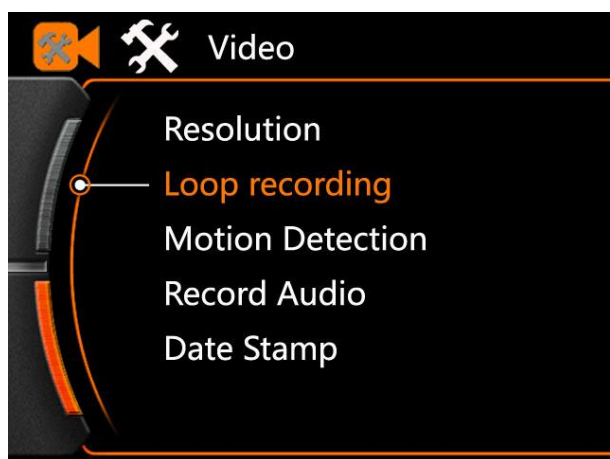
Resolution setting:



Use < > button to select suitable resolution, and press REC button to confirm and quit.

Loop Record Setting

Use < > button to select Loop Recording, and press **REC** button to confirm and quit.



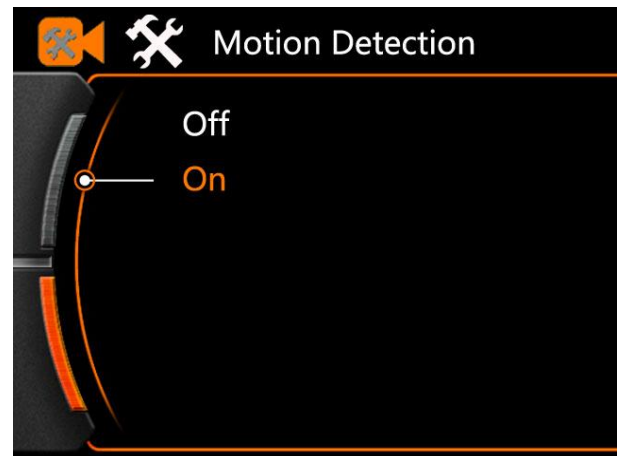
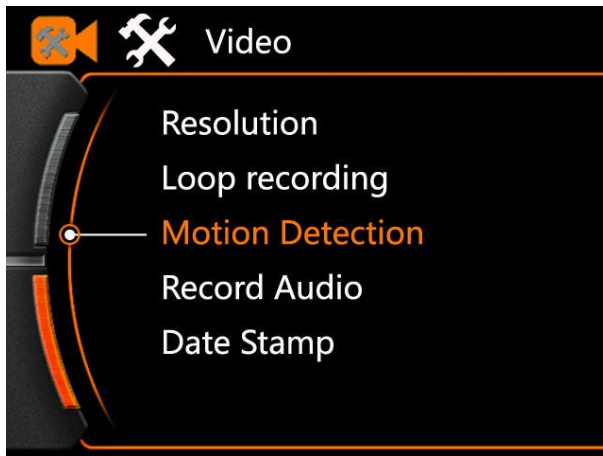
Use < > to select suitable footage time and then press **REC** to confirm and quit.

The default time is 5 minutes for one video clip.

OFF : Loop record is not activated , the camera will continue record till the SD card full or the vehicle turned off, the system will not save the video in part.

Motion Detection

Press < > to select Motion Detection and press **REC** button to confirm and enter.



Press < > to select On / Off and press **REC** button to confirm and quit.

The system will not start record automatically and only active record by detect movement.

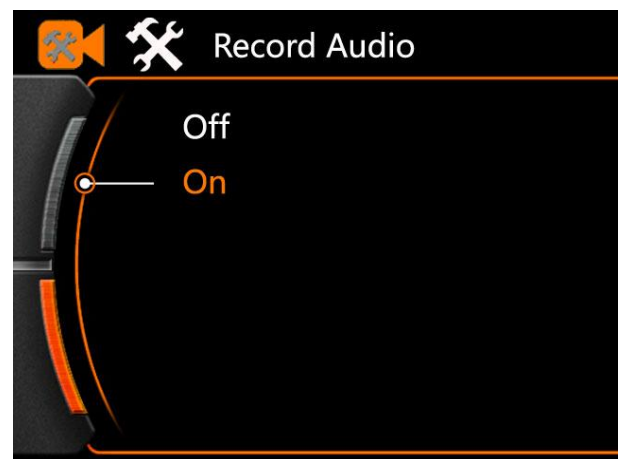
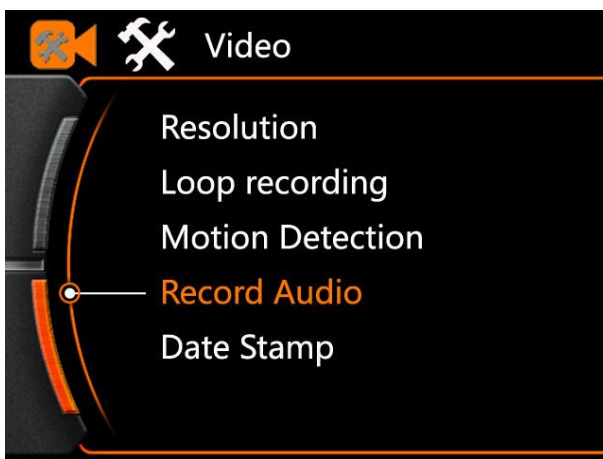
Motion Detection: Under power on state, camera will start video record only when detected movement in the picture.

The default Recording time will continue 10 Seconds if there without 2nd movement detected.

Camera will record continuously if movement always detected.

Record Audio

Press < > to select "Record audio" under REC mode , press REC to confirm and enter.



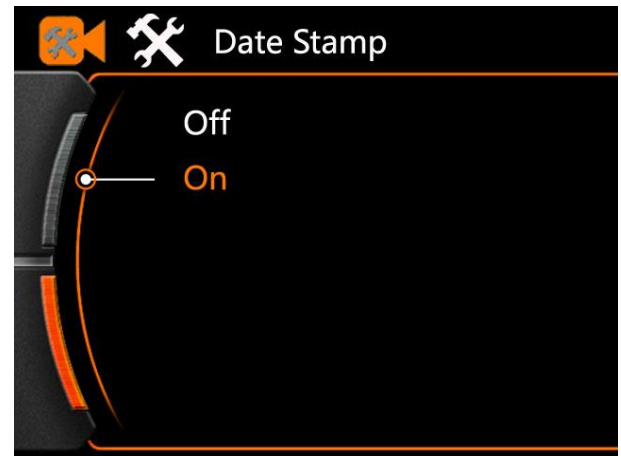
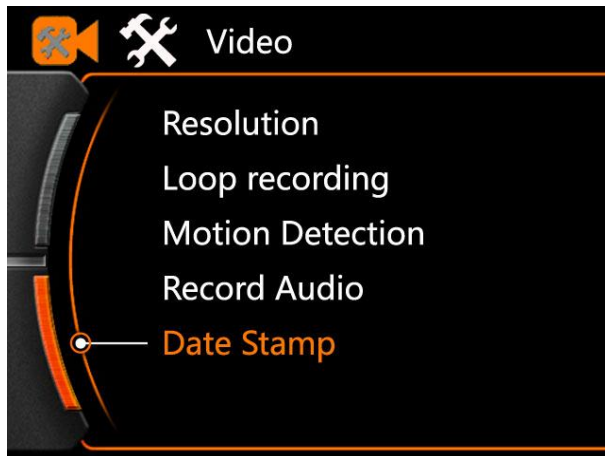
Press < > to select ,press REC to confirm and quit.

Off: Video clip without sound

On : Video clip with sound

Date Stamp

Press **MENU** to enter the main menu of the camera, press < > to select time stamp



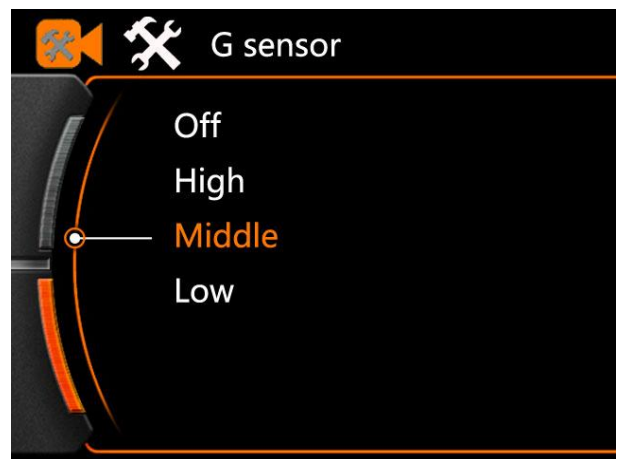
Press **REC** to confirm and enter to select menu, press < > to select , press **REC** to save and quit.

OFF: Video clip without Date & Time stamp

On : Video clip with Date & Time stamp

G-Sensor

Press MENU to enter main menu, press < > to select G-Sensor.



Press < > to select

Off: Turn OFF G-Sensor

High : High sensitive respond to active G-sensor

Middle : Middle sensitive respond to active G-sensor

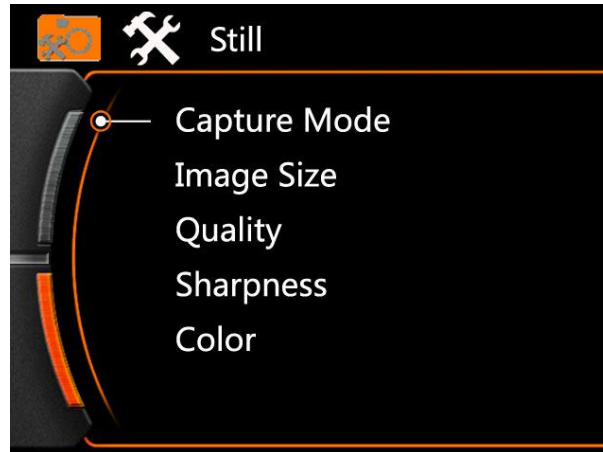
Low : Low sensitive respond to active G-sensor

Remark: This function is useful for saving current file when vehicle suddenly stop or traffic accident happen.

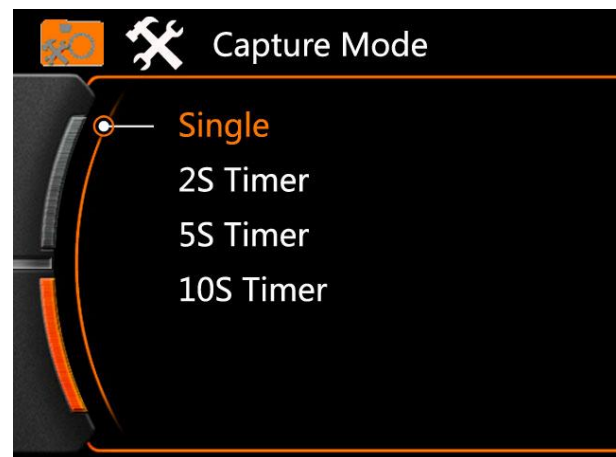
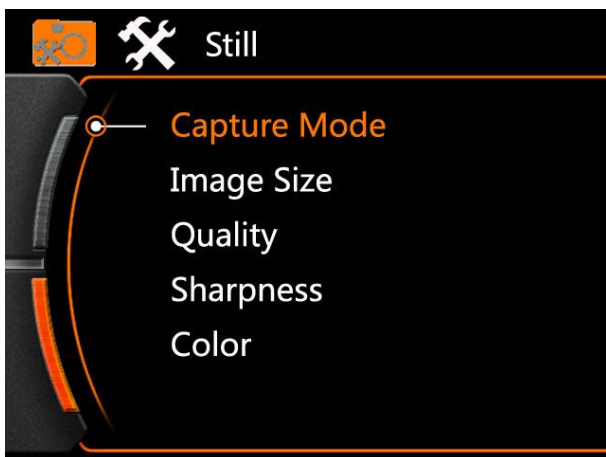
Still Picture Setting

Capture Mode

Use **POWER** button to enter capture mode, then press MENU button to enter the main menu, and use < > button to select the option.



Use < > button to select the “ Capture Mode” and press REC button to enter option.



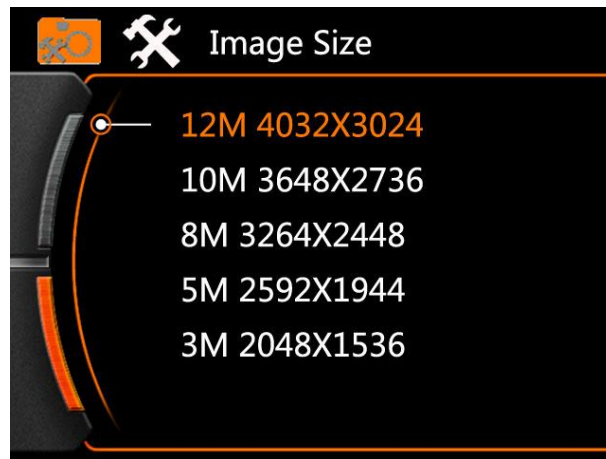
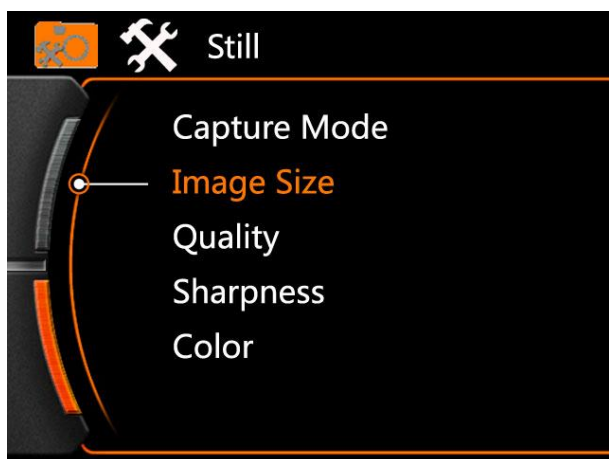
Single : Camera will take one picture by pressing the **REC** button once.

2S Timer: Camera will delay 2 seconds to take one picture after pressing the **REC** button.

5S Timer / 10S Timer will be the same rule as above.

Image Size

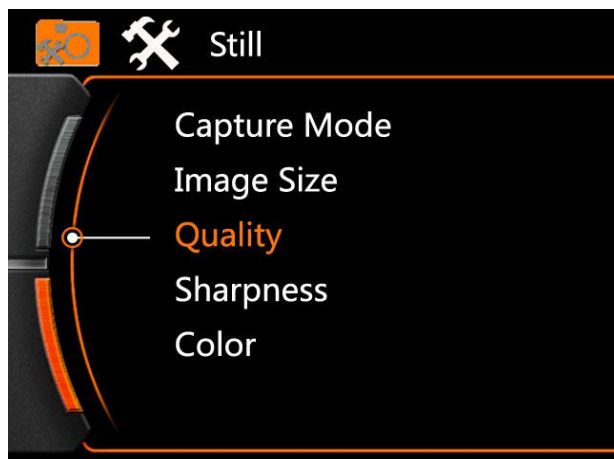
Press < > to select the image size , press REC to enter the select menu.



Press < > to select suitable image size according to personal need, press REC to save and quit .

Still Picture Quality

Press < >to select image quality, press **REC** to enter select menu.



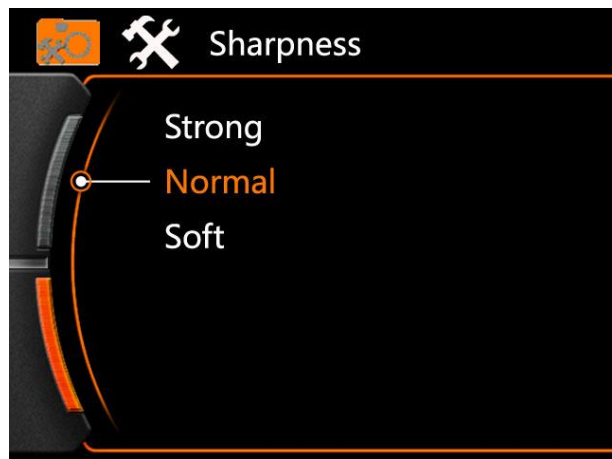
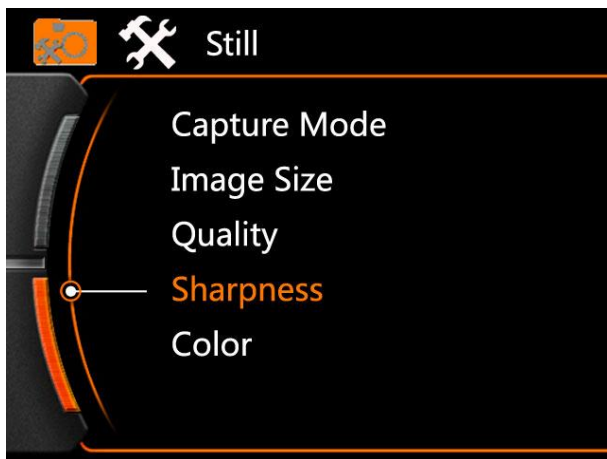
Press < > to select image quality.

Press REC to save setting and quit.

Note : Default setting is High quality .

Sharpness

Press < > to select sharpness ,press REC to enter select menu

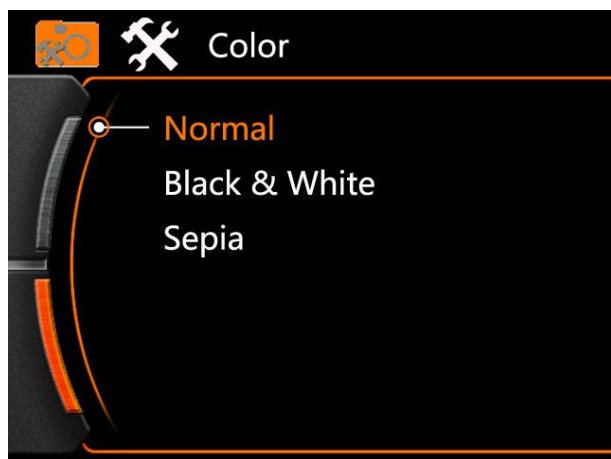
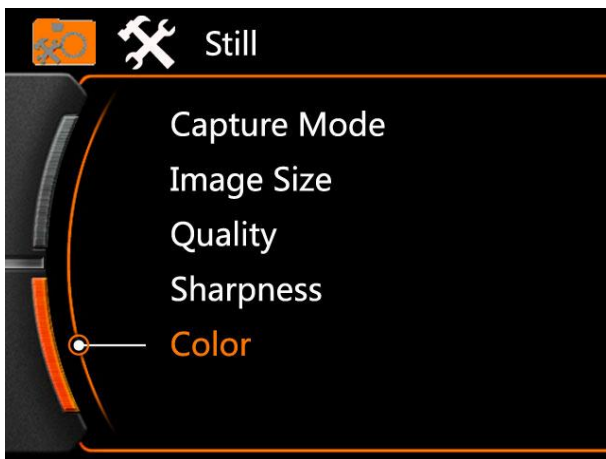


Press < > to select suitable sharpness option, press **REC** to save and quit.

Note: Default setting is Normal.

Color

Press < > to select the effect of color



Press REC to enter setting

Press < > to select suitable photo effect, press **REC** to save option and quit.

Normal : Normal color picture

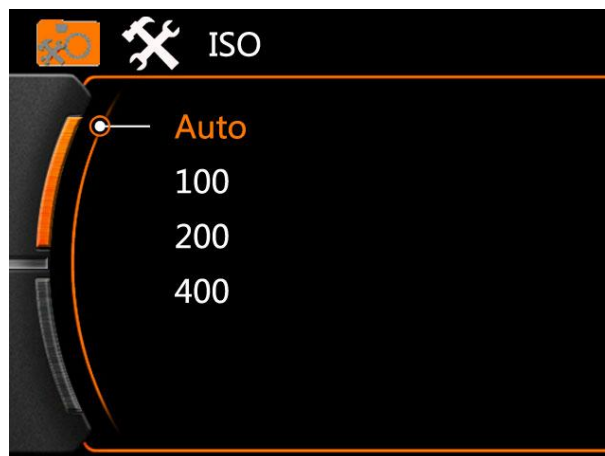
Black & White: Black and white picture

Sepia: Retro special efficiency picture

Remark: Default setting is Normal color picture.

ISO

Press < > to select ISO under capture mode, press REC to confirm and enter option menu.



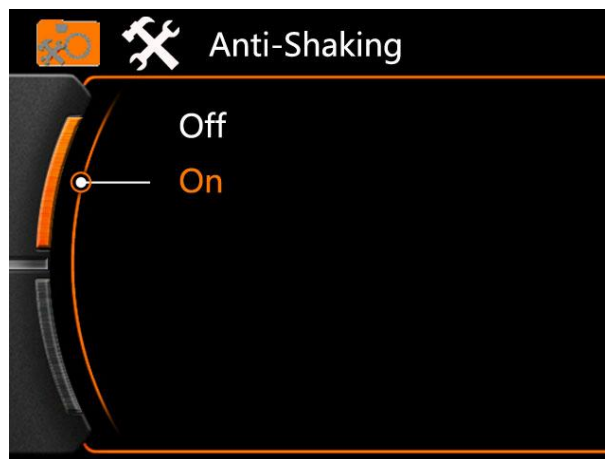
Press < > to select suitable ISO according to different environment

Press REC to save selection and quit.

Remark: Default Setting is Auto

Anti-Shaking of Hands

Press < > to select Anti-Shaking, press REC to enter the option menu.



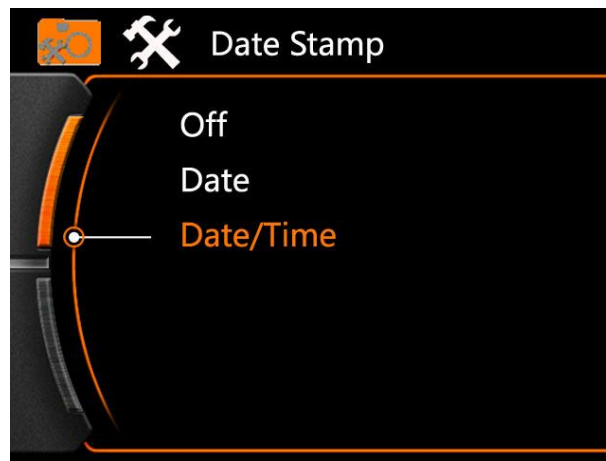
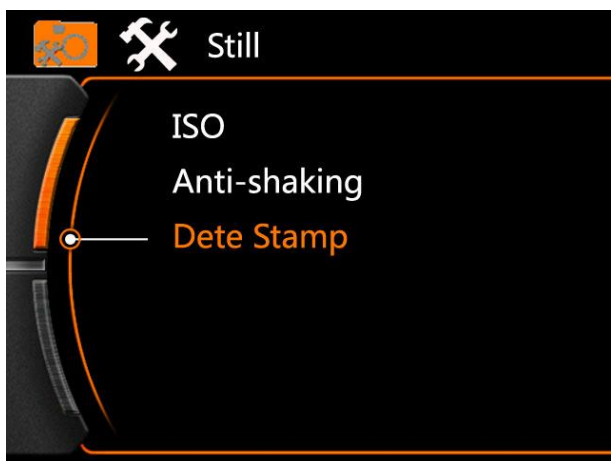
Press < > to select OFF or ON

Press REC to save option and quit

Remark : Default setting is ON, recommend to turn on.

Date & Time stamp

Press < > to select date stamp ,press REC to enter the option menu.



Press < > to select turn on or turn of the date stamp.

Press REC to confirm , save and quit.

Off: Picture without date display

Date : Picture with date display

Date / Time : Picture with time and date display

Remark: Default setting is Date & Time displayed in the picture.

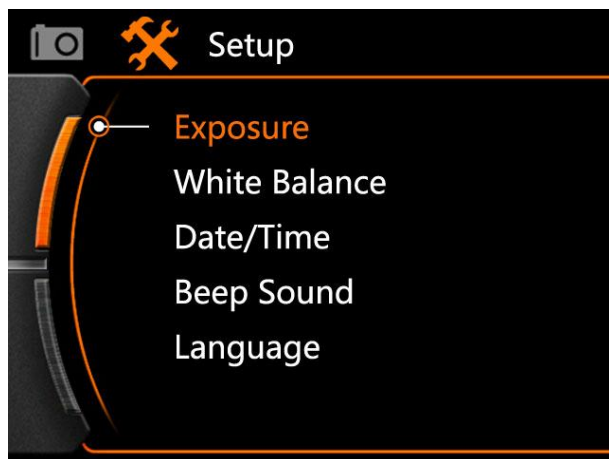
System Setting

Press the “ MENU “ button twice to enter the system setting menu.

Exposure Setting

Press MENU to enter the current setting ,press menu again to enter system setting menu.

Press < > to select exposure



Press REC to enter setting menu

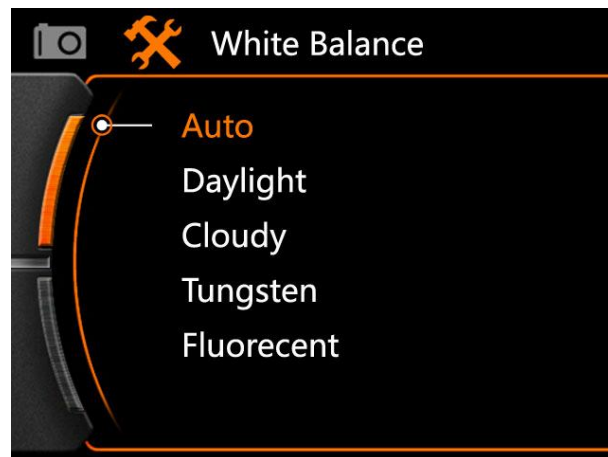
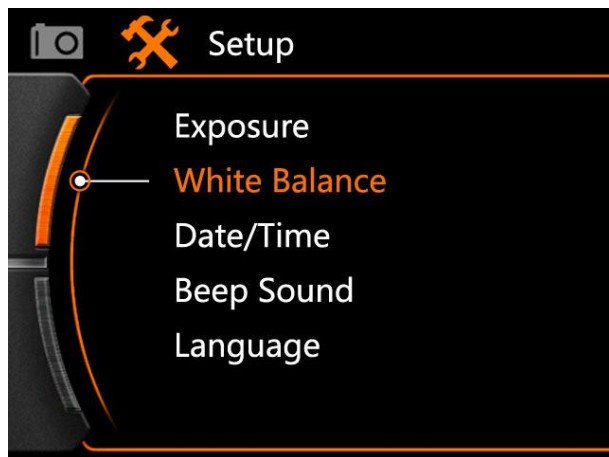
Select suitable exposure according to different environment

Press REC to save setting and quit

Remark : Default setting is +0.0

White balance

Press < > to select white balance setting



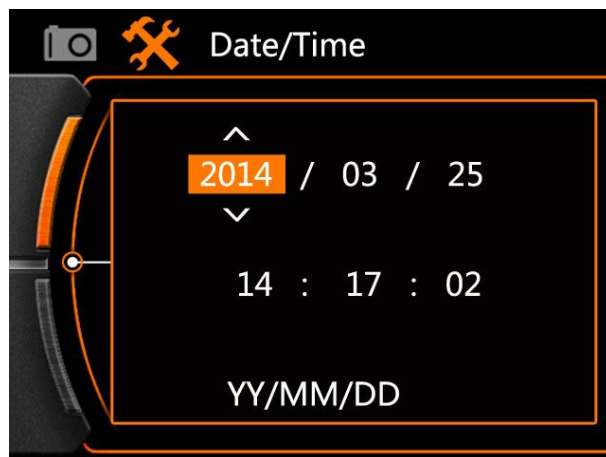
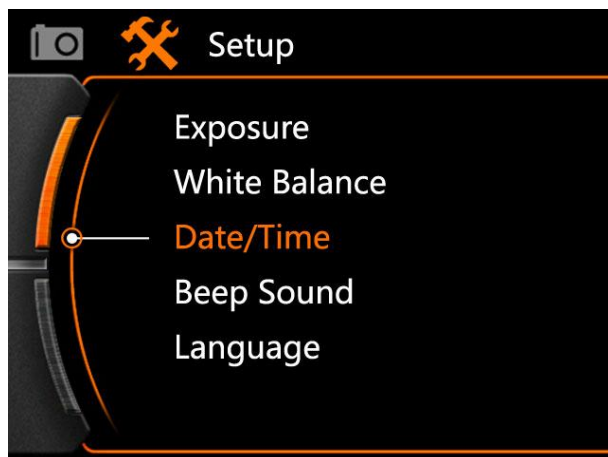
Press < > to select

Press REC to confirm, save and quit

Remark: Default setting is auto

Date/Time Setting

Press < > to select Date/ Time, press REC to correct time and date



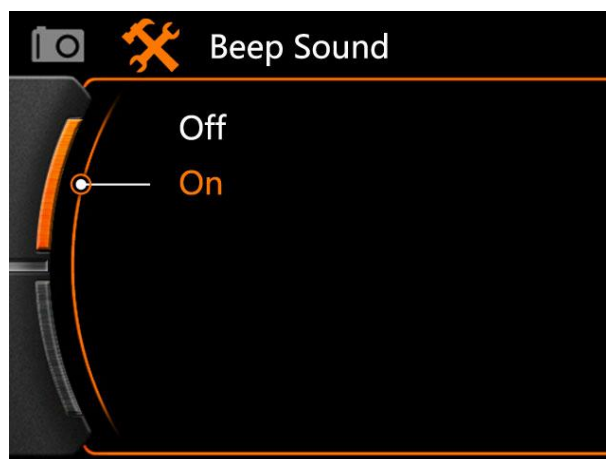
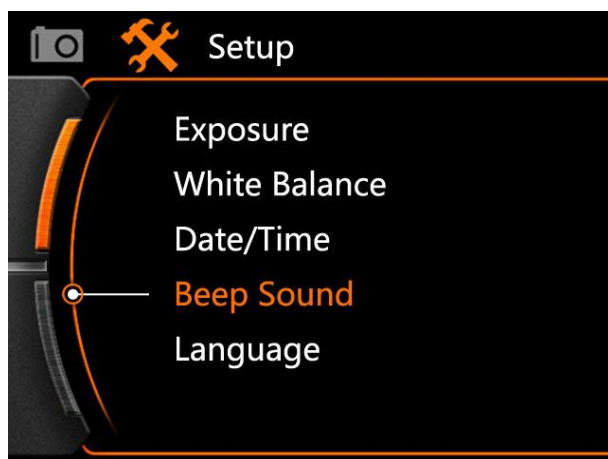
Press REC to confirm and enter ,

Press < > to adjust time and date, press REC to confirm ,save and forward to next setting.

Press REC to save and quit.

Beep Sound

Press < > to select beep sound ,press REC to enter setting .

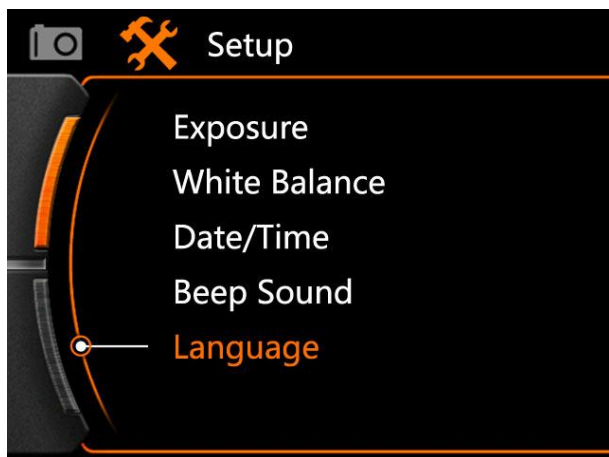


Press < > to select turn on / off the button sound

Press REC to confirm setting and quit

Language

Press < > to select language, press REC to setting



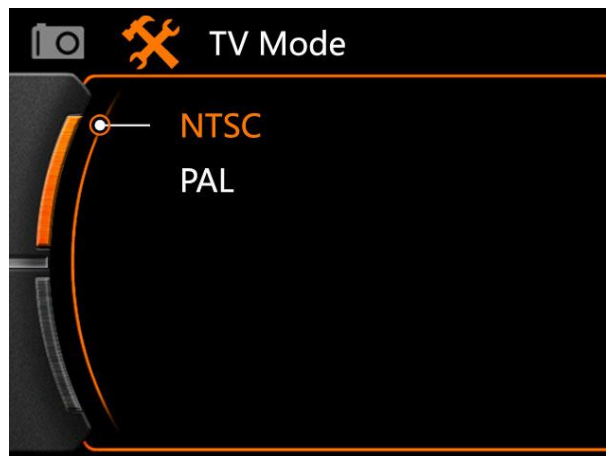
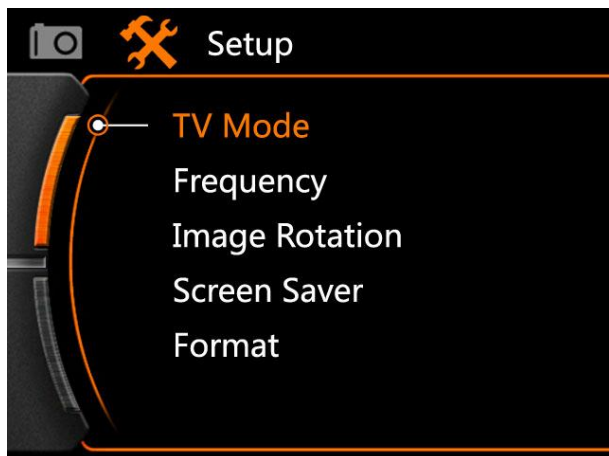
Press REC to confirm and press< > to select language

Press REC to confirm and quit

Remark : Default setting is English

TV mode output

Press < > to select TV mode



Press REC to confirm and select , press < > to select PAL system

Press REC to confirm and quit

NTSC : 60Hz for Europe , America, Japan, etc.

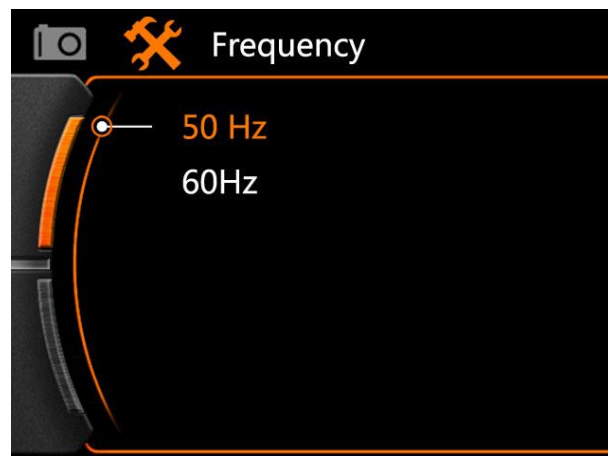
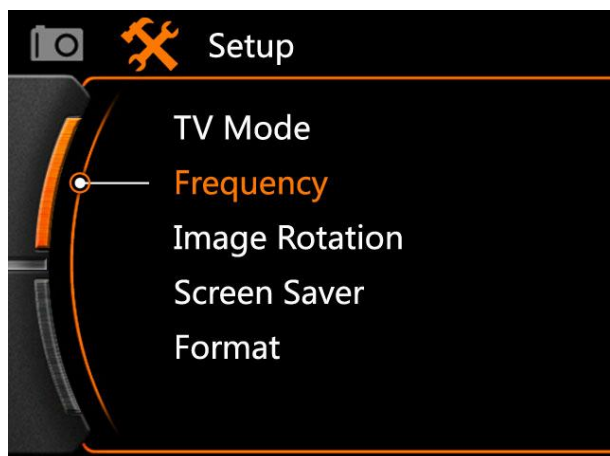
PAL : 50Hz for China and some Asia countries

Most TV compatible with NTSC / PAL automatically ,could be used directly without external setting

Remark : Default setting is NTSC system

Frequency

Press < > to select frequency



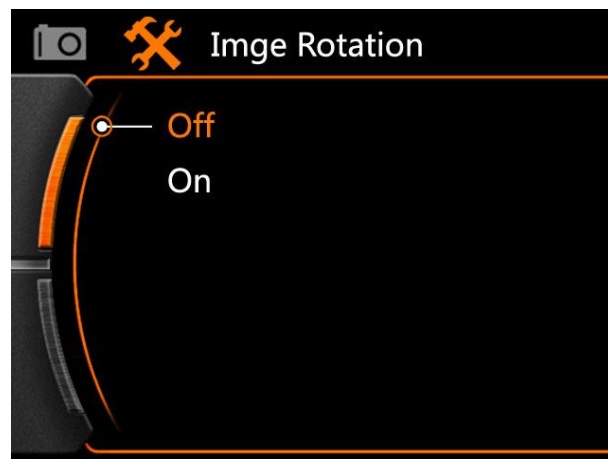
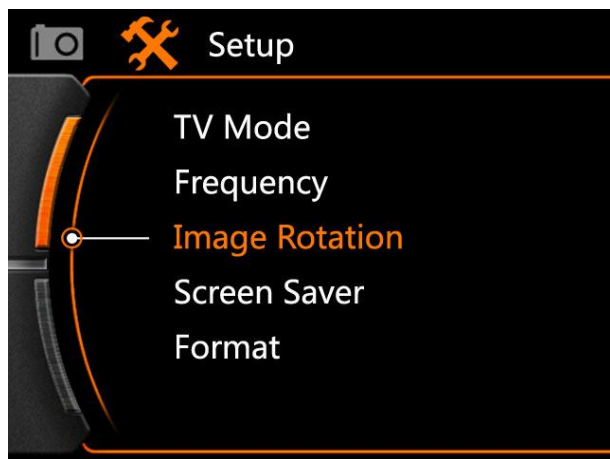
Press REC to confirm and select ,press < > to select

Press REC to confirm setting and quit

Remark: The frequency here means Power Frequency.

Image Rotation

Press < > to select Image Rotation



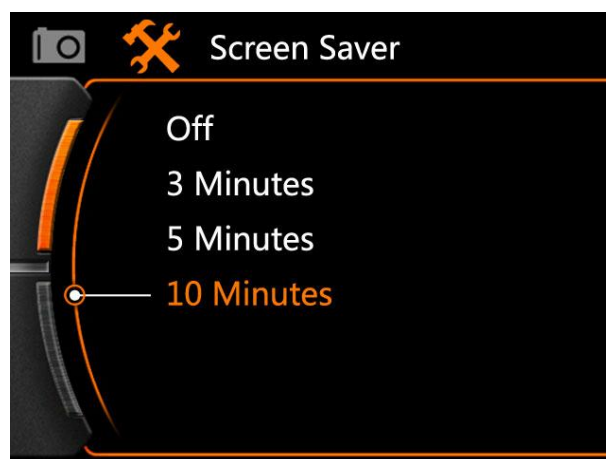
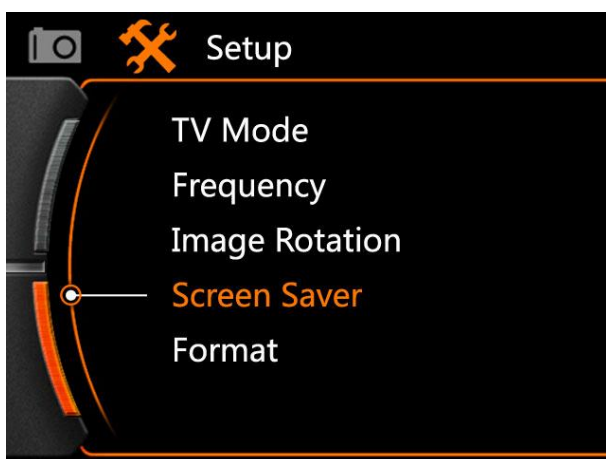
Press REC to confirm and select

Off : Normal picture

On : 180° Rotated picture

Screen Saver

1. Press < > to select Screen Saver



Press REC to confirm and select

Press REC to confirm , save and quit

Off: Screen will not turn OFF

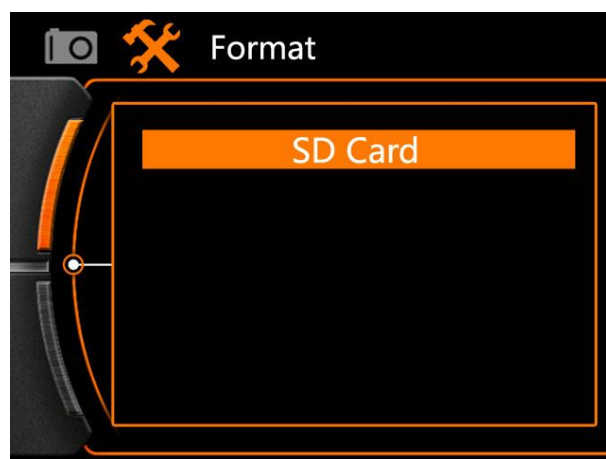
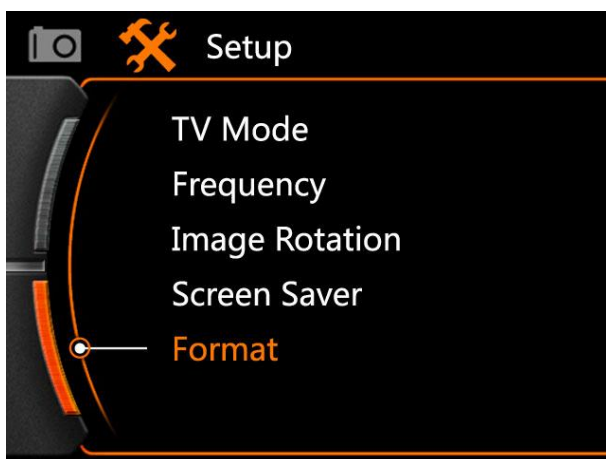
3 minutes : Screen will turn OFF automatically after 3 minutes if without any operation

5minutes : Screen will turn OFF automatically after 5 minutes if without any operation.

10 minutes : Screen will turn OFF automatically after 10 minutes if without any operation

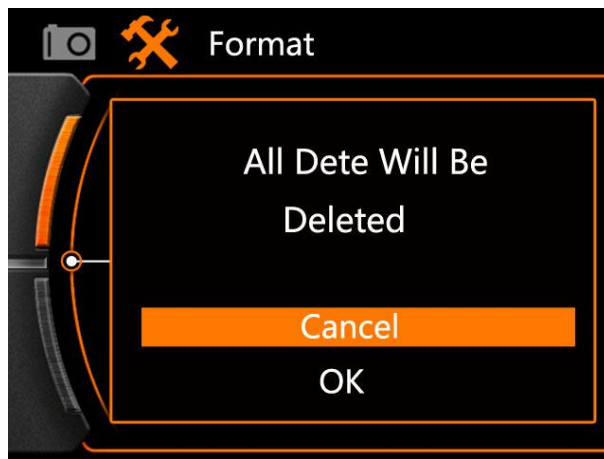
Format

Press < > to select format



Press REC to confirm and select

Press < > to select format or not ,press REC to confirm



Cancel: Cancel operation and TF card will not be formatted

OK: format the current TF card

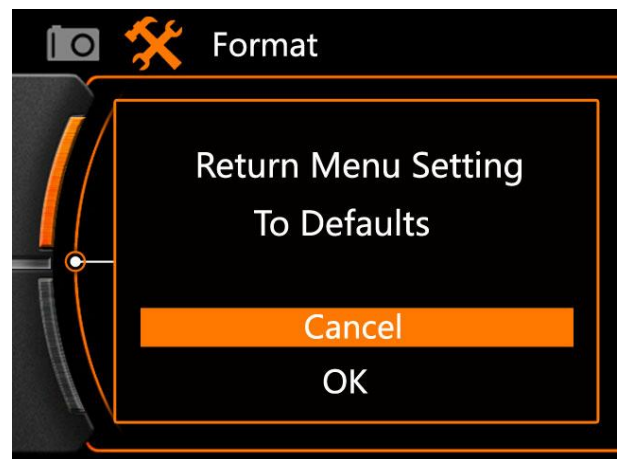
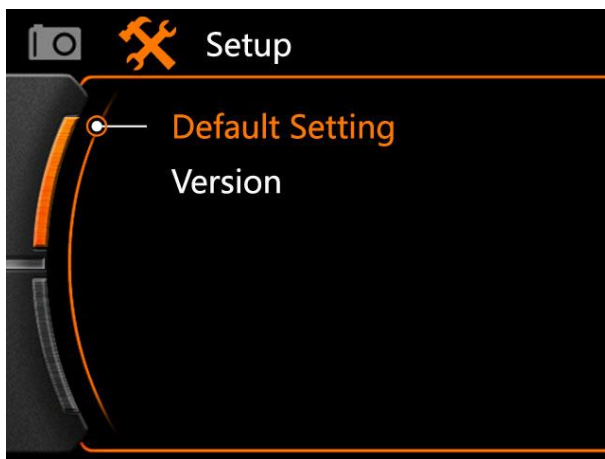
Press REC to confirm and quit

Attention:

Data could not be recovered after formatting operation, please be cautious.

Default setting

Press < > to select default setting



Press REC to confirm and select ,press < > to select whether return menu to default setting or not.

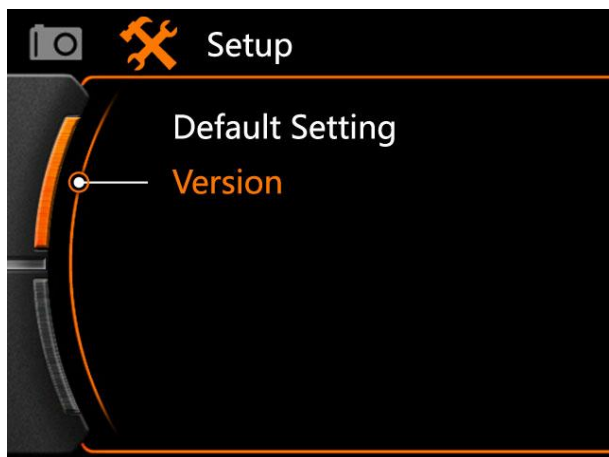
Press REC to confirm and quit.

Cancel : Cancel operation and system will not be reset

OK: Reset to factory setting

Version

Press < > to select the version ,press REC to confirm and watch the version information.



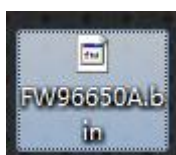
Press REC to quit to the setting menu.

Firmware Update

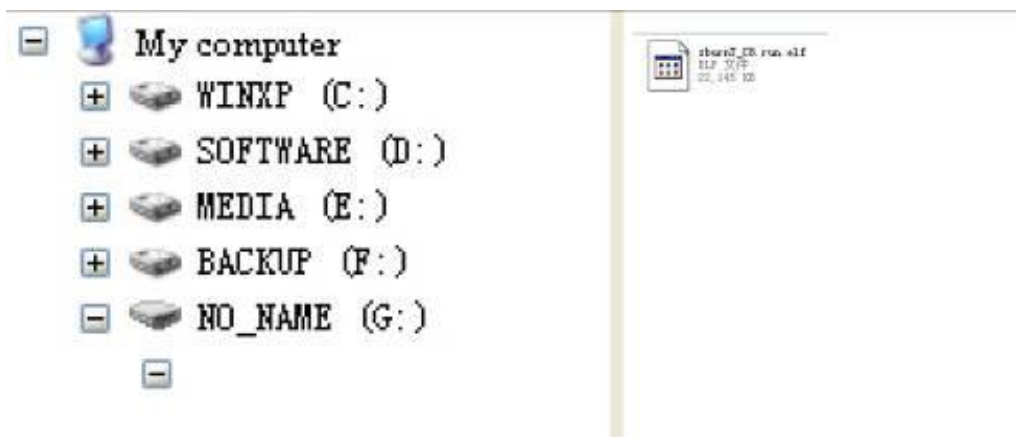
Download the firmware package from the official website or local distributors website , the package as below



After released:



Copy the file “ FW96650A.bin” to the root directory of TF card



Install the TF card to the camera and turn on , update process will run automatically.

Specifications

	ITEM		SPEC	REMARK
Main Spec	Build in storage		32MB	
	TF card		1-32GB	Support 32GB SDHC
	LCD	Size	2.7inch	
		resolution	480x240	
	sensor	size	1/3inch	CMOS
		image pixel	2304H x1536V	
	Video	output port	USB/RCA	
	Audio	Microphone	built in	
		Output port	USB/RCA	
		speaker	built in	
	Interface	USB	USB 2.0	high speed
Camera Spec	Power	Battery	3.7[V], 300[mAH]	Li-ion battery
		Car charger	DC 5V, 1A	
	Main Unit size		80x31.5x39mm	
Other Spec	weight		g	Battery included
	motion detection		Yes	
	loop record		yes	
	timing record		yes	
	zoom		yes	
	AV record option		yes	
	TF card full notice		yes	
	time stamp		yes	
	image flip		yes	
	video quality option		yes	
	support record under screen off		yes	

	ITEM		SPEC	REMARK
	File protected while lower power		Yes	
Video & Picture	Video record	optional	Full HD1920x1080 30FPS	
			HD1280x720 30FPS	
			HD1280x720 60FPS	
			HD1280x720 30FPS	
			QVGA 848x480 60fps	
	Capture	optional	4032x3024 12MP 3648 x 2736 10MP 3264 x 2448 8MP	
Sound record		yes		
Playback	slid show		yes	
	Thumbnail browse		No	
	Video	support	WVGA: 848x480	
		Frame rates	30 fps	
		file format	Full HDMOV H.264	
		Playing speed	optional	X1, X2,X 4,X 8
Accessories				
Camera Unit		1	Manual Disc	1
3D Mount		1	USB & RCA cable	1
Cigar Charger		1		
Cable clip		6		

ATTENTION: Product will lost warranty if disassemble personally.



Please login www.jeasun.net for more product information.